

AMENDMENTS TO THE CLAIMS

Claims 1-31 are pending in the instant application. Claims 2-20 and 22-30 have been amended. The Applicant requests reconsideration of the claims in view of the following amendments reflected in the listing of claims.

Listing of claims:

1. (Original) A method for providing seamless connectivity and communication in a multi-band, multi-protocol network, the method comprising:

initially authenticating an access device upon said access device initiating communication with a first access point;

providing authentication information related to said initial authentication to at least one of a second access point and a third access point; and

servicing said access device by one of said first access point, said second access point and said third access point based on said initial authentication.

2. (Currently amended) The method according to claim 1, ~~further~~ comprising storing said initial authentication information.

3. (Currently amended) The method according to claim 2, further comprising retrieving said stored initial authentication information by said second access point and said third access point.

4. (Currently amended) The method according to claim 3, wherein said retrieving further comprises retrieving said initial authentication information by said second access point when said access device migrates from a first coverage area associated with said first access point to a second coverage area associated with said second access point.

5. (Currently amended) The method according to claim 4, wherein said retrieving further comprises retrieving said initial authentication information by said third access point when said access device migrates from one of said first coverage area and said second coverage area to a third coverage area associated with said third access point.

6. (Currently amended) The method according to claim 3, wherein said retrieving further comprises retrieving said initial authentication information upon said access device initiating communication with said second access point.

7. (Currently amended) The method according to claim 3, wherein said retrieving ~~further~~ comprises retrieving said initial authentication information upon said access device initiating communication with said third access point.

8. (Currently amended) The method according to claim 1, ~~further~~ comprising distributing said initial authentication information to said second access point and said third access point upon said initial authenticating.

9. (Currently amended) The method according to claim 5, ~~further~~ comprising transparently transferring said initial authentication information to said second access point during a handoff of said access device from said first access point to said second access point.

10. (Currently amended) The method according to claim 5, ~~further~~ comprising transparently transferring said initial authentication information to said third access point during a handoff of said access device from one of said first access point and said second access point to said third access point.

11. (Currently amended) A ~~machine-readable—storage~~ computer-readable media, having stored thereon, a computer program having at least one code section for providing seamless connectivity and communication in a multi-

band multi-protocol hybrid wired/wireless network, the at least one code section being executable by a machine for causing the machine to perform steps comprising:

initially authenticating an access device upon said access device initiating communication with a first access point;

providing authentication information related to said initial authentication to at least one of a second access point and a third access point; and

servicing said access device by one of said first access point, said second access point and said third access point based on said initial authentication.

12. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 11, ~~further~~ wherein said at least one code section comprises code for storing said initial authentication information.

13. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 12, ~~further~~ wherein said at least one code section comprises code for retrieving said stored initial authentication information by said second access point and said third access point.

14. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 13, wherein said at least one code section

comprises code for retrieving said initial authentication information by said second access point when said access device migrates from a first coverage area associated with said first access point to a second coverage area associated with said second access point.

15. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 14, further wherein said at least one code section comprises code for retrieving said initial authentication information by said third access point when said access device migrates from one of said first coverage area and said second coverage area to a third coverage area associated with said third access point.

16. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 13, further wherein said at least one code section comprises code for retrieving said initial authentication information upon said access device initiating communication with said second access point.

17. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 13, further wherein said at least one code section comprises code for retrieving said initial authentication information upon said access device initiating communication with said third access point.

18. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 11, ~~further~~ wherein said at least one code section comprises code for distributing said initial authentication information to said second access point and said third access point upon said initial authenticating.

19. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 15, ~~further~~ wherein said at least one code section comprises code for transparently transferring said initial authentication information to said second access point during a handoff of said access device from said first access point to said second access point.

20. (Currently amended) The ~~machine-readable-storage~~ computer-readable media according to claim 15, ~~further~~ wherein said at least one code section comprises code for transparently transferring said initial authentication information to said third access point during a handoff of said access device from one of said first access point and said second access point to said third access point.

21. (Original) A system for providing seamless connectivity and communication in a multi-band, multi-protocol network, the system comprising:

at least one processor for initially authenticating an access device upon said access device initiating communication with a first access point;

said at least one processor for providing authentication information related to said initial authentication to at least one of a second access point and a third access point; and

said one of said first access point, said second access point and said third access point providing service to said access device based on said initial authentication..

22. (Currently amended) The system according to claim 21, ~~further~~ comprising at least one memory for storing said initial authentication information.

23. (Currently amended) The system according to claim 22, wherein said at least one processor ~~is adapted to~~ retrieves said stored initial authentication information by said second access point and said third access point.

24. (Currently amended) The system according to claim 23, wherein said at least one processor ~~is adapted to~~ retrieves said initial authentication information by said second access point when said access device migrates from a first

coverage area associated with said first access point to a second coverage area associated with said second access point.

25. (Currently amended) The system according to claim 24, wherein said at least one processor ~~is adapted to~~ retrieves said initial authentication information by said third access point when said access device migrates from one of said first coverage area and said second coverage area to a third coverage area associated with said third access point.

26. (Currently amended) The system according to claim 23, wherein said at least one processor ~~is adapted to~~ retrieves said initial authentication information upon said access device initiating communication with said second access point.

27. (Currently amended) The system according to claim 23, wherein said at least one processor ~~is adapted to~~ retrieves said initial authentication information upon said access device initiating communication with said third access point.

28. (Currently amended) The system according to claim 21, wherein said at least one processor ~~is adapted to~~ distributes said initial authentication information to said second access point and said third access point upon said initial authenticating.

29. (Currently amended) The system according to claim 25, wherein said at least one processor ~~is adapted to~~ transparently transfers said initial authentication information to said second access point during a handoff of said access device from said first access point to said second access point.

30. (Currently amended) The system according to claim 25, wherein said at least one processor ~~is adapted to~~ transfers said initial authentication information to said third access point during a handoff of said access device from one of said first access point and said second access point to said third access point.

31. (Original) The system according to claim 25, wherein said at least one processor is an authentication processor, a switch processor, an access point processor and a server processor.